

Amendment  
Serial No. 10/645,189

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5000-1-328

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IN THE CLAIMS

*Please amend the claims as follows:*

1. (Currently Amended) A system for supplying power to media converters for optical communication, wherein each media converter converts an interface of electrical-communication equipment to an interface of an optical-communication device and converts the interface of the optical-communication device to the interface of the electrical-communication device equipment, the system comprising:

a power-supply device constructed independently from the media converters; and,

at least one power-supply socket device arranged between said electrical-communication equipment and said media converters to supply power from the power-supply device to the media converters and data from said electrical communication equipment to the media converters, wherein

the power-supply socket device comprises a plurality of lines for electrical interfacing and includes input/output data interfaces for connection with the electrical-communication equipment and further includes input/output data interfaces and power-supply interfaces for connection with the media converters.

2. (Original) The system as claimed in claim 1, wherein the power-supply socket device further comprises:

a main power-supply socket device for directly receiving power from the power supply device;

at least one dependent power-supply socket device for receiving the power from the

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main power-supply socket device; and,

at least one conductor interface for connecting a dependent power-supply socket device to the main power-supply socket device.

3. (Original) The system as claimed in claim 2, wherein the at least one conductor interface alternatively connects a dependent power-supply socket device to another dependent power-supply socket device.

4. (Currently Amended) The system as claimed in claim 43, wherein said at least one conductor interface comprises a plurality of conductor interfaces which are respectively arranged between a plurality of power supply socket devices, and further comprising a fuse interposed between the conductor interfaces to prevent the conductor interfaces from a short circuit.

5. (Original) The system as claimed in claim 1, wherein the electrical-communication equipment further includes additional interfaces that accommodate additional interface devices.

6. (Original) The system as claimed in claim 1, wherein the electrical-communication equipment transmits electrical signals to and from media converters through copper wire.

7. (Currently Amended) The system as claimed in claim 1, wherein the at least one power-supply socket devices transmit power to the media converters through copper wire.

8. (Original) The system as claimed in claim 1, wherein the media converters transmit

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optical data between one another through optical fiber.

9. (Original) The system as claimed in claim 1, wherein the media converters comprise an amplifier, a laser diode, and a photodiode.

10. (Currently Amended) A method for supplying power to media converters for optical communication, wherein each media converter converts an interface of electrical-communication equipment to an interface of an optical-communication device and converts the interface of the optical-communication device to the interface of the electrical-communication ~~device~~ equipment, the method comprising the steps of:

providing a power-supply device constructed independently from the media converters;  
and,

providing at least one power-supply socket device arranged between said electrical-communication equipment and said media converters to supply power from the power-supply device to the media converters and data from said electrical communication equipment to the media converters.

11. (Original) The method as claimed in claim 10, wherein the step of providing a power-supply socket device further includes the step of providing a power-supply socket device including input/output data interfaces for connection with the electrical-communication equipment and input/output data interfaces and power-supply interfaces for connection with the media converters.

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12. (Original) The method as claimed in claim 11, wherein the step of providing a power-supply socket device further comprises the steps of:

providing a main power-supply socket device for directly receiving power from the power-supply device;

providing at least one dependent power-supply socket device for receiving the power from the main power-supply socket device; and,

providing at least one conductor interface for connecting a dependent power-supply socket device to the main power-supply socket device or for connecting one dependent power-supply socket device to another dependent power-supply socket device.